

**TECHNICAL ELECTIVES
(FOR MECH MAJORS)
ONE REQUIRED**

(Note: Be sure to follow prerequisites when taking courses in other departments.)

MECH	132	Fluid Mechanics II*
	143	Mechatronics
	145	Introduction to Aerospace Engineering*
	146	Mechanism Design*
	151	Finite Element Theory and Applications*
	152	Composite Materials
	156	Introduction to Nanotechnology
	144	Smart Product Design
	254	Introduction to Biomechanics* <u>See NOTE also</u>
ELEN	100	Electric Circuits II
	115	Electronic Circuits I
CENG	123	Environmental Reaction Engineering
	139	Groundwater Hydrology
	140	Water Resources Engineering
	141	Hydraulic Engineering
	143	Environmental Engineering
	149	Civil Engineering Systems
	160	GIS in Water Resources

*Offered in alternate years

NOTE: Four-unit graduate course open to qualified undergraduate students for credit as technical elective. Other graduate courses are also open; see your advisor for details.

**MATH/SCIENCE ELECTIVES
(FOR MECH MAJORS)
ONE REQUIRED**

(Note: Be sure to follow prerequisites when taking courses in other departments.)

MATH	53	Linear Algebra
	102	Advanced Calculus
	105	Theory of Functions of a Complex Variable
	144	Partial Differential Equations
AMTH	108	Probability and Statistics
MECH	102	Intro to Mathematical Methods in Mechanical Engineering (may be required based on previous Math performance)
CHEM	12	General Chemistry II
BIO	5	Endangered Ecosystems
	6	Oceans
	9	Cancer
	15	The Human Embryo
	18	Exploring Biotechnology
	21	Introduction to Physiology
PHYS	34	Physics for Scientists and Engineers IV
	101	Analytical Mechanics I
	102	Analytical Mechanics II
CENG	20	Geology